

## ABSTRACT

A camera tracking system for a virtual television or video studio is provided. The camera tracking system is used to determine the position and/or orientation of recording cameras and comprises emitter devices for emitting electromagnetic radiation. The emitter devices can be mechanically coupled to the recording camera. The camera tracking system further comprises detecting devices for detecting the position of the emitter devices on the basis of the electromagnetic radiation emitted by the emitter devices, each detecting device being able to detect several emitter devices. A computer unit evaluates the electromagnetic radiation detected by the detecting devices and emitted by the emitter device, and determines the position and/or orientation of the emitter devices in relation to the detecting devices.

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